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QUERY. BY PROF. D. J. MC ADAM.—In works on Practical Geometry, the following method of inscribing a regular polygon of $n$ sides is given:

Let $AB$ be a diameter of a circle. With $A$ and $B$ as centers and radius $AB$ describe arcs intersecting in $D$. Divide $AB$ into $n$ equal parts. Draw $DE$ through the second point of division; the arc $AE$ is one-$n$th part of the circumference. Is there a general demonstration published?

QUERY (BY REQUEST).—On page 59 of Prof. Peirce's "Linear Associative Algebra", under the head of "Quadruple Algebras", the algebra "$g_4$" is said to have for its multiplication table the following table and to be also a "form of quaternions".

| $g_4$ | $i$ | $j$ | $k$ | $l$ |
|---|---|---|---|---|
| $i$ | $i$ | $j$ | $o$ | $o$ |
| $j$ | $o$ | $o$ | $i$ | $j$ |
| $k$ | $k$ | $l$ | $o$ | $o$ |
| $l$ | $o$ | $o$ | $k$ | $l$ |

Explain by an example.

## *PUBLICATIONS RECEIVED.*

*Micrometrical Measurement of* 517 *Double Stars*, at the Cincinnati Observatory, During the year 1877. ORMOND STONE A. M., Director. 74 pages, 8vo.

*American Journal of Mathematics Pure and Applied.* Volume I. Number 1. 104 pages, 4to. Baltimore. — The first Number of this periodical fully justifies the anticipations of its friends, based upon the high character and mathematical attainments of its editors and contributors. Subscription price $5.00 per Vol. (4 nnmbers), or $1.50 for a single number.

## *ERRATA.*

On page 173, Vol. II, commencing in last line, cancel the sentence, "As to the double sign before these factors, the upper or lower is taken according as $i'''$ is even or odd." And, on page 174, for ±, read +.

On page 39, line 6, for $(m—2)_1$, read $—(m—2)_1$.

" " 51, line 26, for *Lauch*, read *Cauchy*.

" " 67, formula (7), insert bracket ( ] ) before $(u_2+u_{-2})$ and before $(u_4+u_{-4})$.

" " 79, line 17, for 16, read 15.